

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P238356

Luminaire Tested: **PRS630D010-S6M24-61SWWMW-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-27)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-61SWWMW-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WALL WASH DISTRIBUTION, WW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1837.9 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.04 / 1.14  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

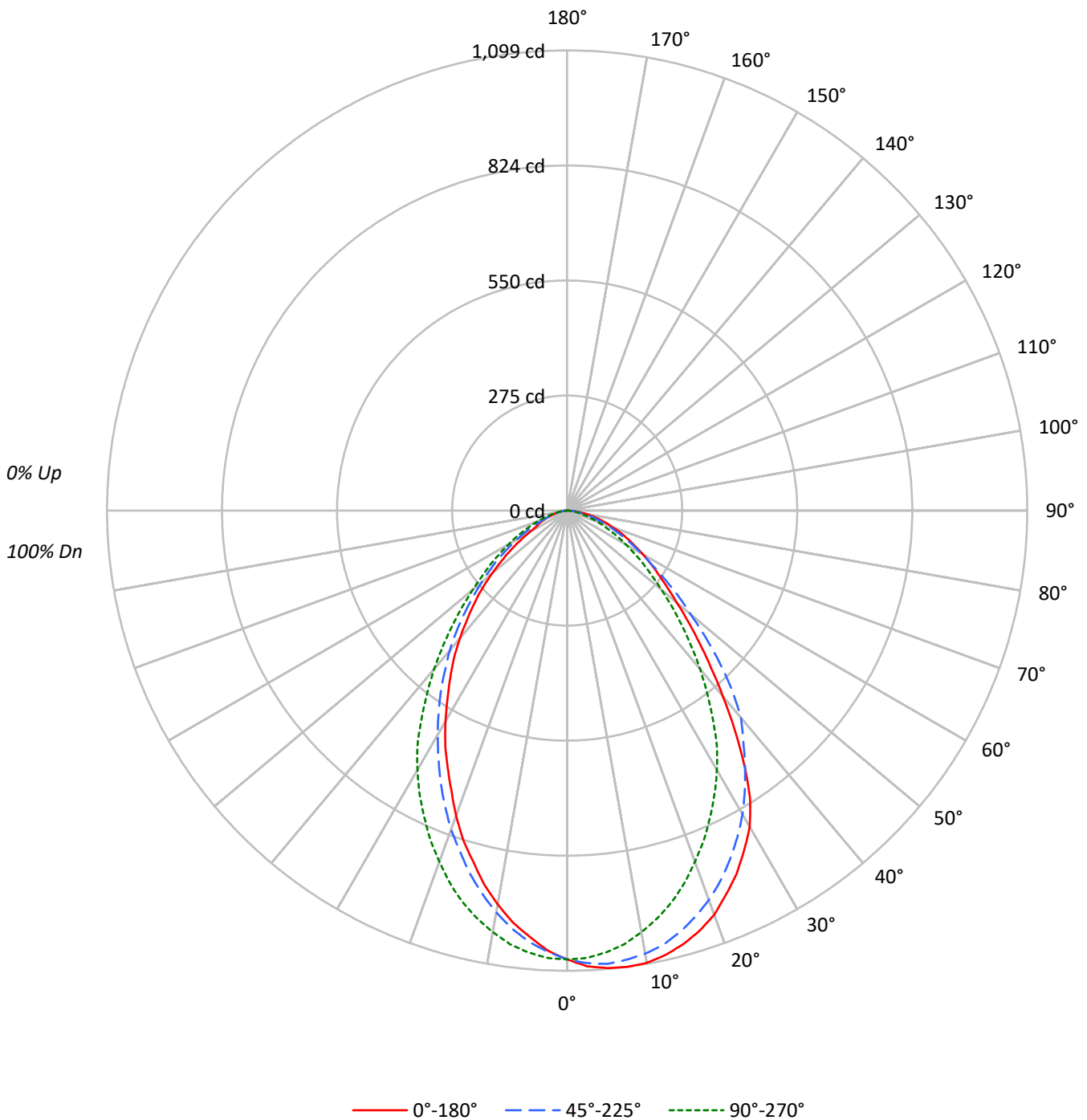
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90					88				
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79					77				
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70					68				
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62					60				
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55					53				
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50					48				
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45					43				
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41					39				
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38					36				
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35					33				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	46151	46151	46151
5°	47404	45787	44171
10°	47952	44682	41739
15°	47779	43112	38668
20°	47056	40889	35523
25°	45473	38371	32091
30°	43378	35567	28875
35°	38654	31836	25550
40°	32503	27743	22415
45°	27169	23528	19126
50°	22875	19700	15694
55°	20020	16657	12348
60°	18032	13950	9016
65°	16250	11431	7621
70°	14439	9416	6584
75°	13275	7469	5806
80°	11133	5554	4934
85°	8596	3705	3705



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.0	5.4
10°-20°	272.2	14.8
20°-30°	373.9	20.3
30°-40°	387.4	21.1
40°-50°	312.6	17.0
50°-60°	207.6	11.3
60°-70°	117.2	6.4
70°-80°	53.8	2.9
80°-90°	13.1	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	746.2	40.6
0°-40°	1133.6	61.7
0°-60°	1653.8	90.0
0°-90°	1837.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1837.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1072	1072	1072	1072	1072	
5°	1097	1087	1059	1034	1022	105
15°	1072	1042	967	897	868	302
25°	957	920	808	715	676	439
35°	735	740	606	526	486	456
45°	446	516	386	346	314	347
55°	267	282	222	199	164	241
65°	160	147	112	90	75	158
75°	80	65	45	32	35	84
85°	17	12	8	10	8	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1089.3	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1084.4	1084.4	1081.9
5°	1096.8	1096.8	1096.8	1096.8	1094.3	1094.3	1094.3	1091.8	1089.3	1086.9	1086.9
7.5°	1099.3	1099.3	1099.3	1096.8	1096.8	1096.8	1094.3	1091.8	1089.3	1086.9	1081.9
10°	1096.8	1096.8	1094.3	1094.3	1091.8	1089.3	1089.3	1086.9	1084.4	1079.4	1074.4
12.5°	1086.9	1086.9	1086.9	1084.4	1081.9	1081.9	1079.4	1074.4	1071.9	1066.9	1061.9
15°	1071.9	1071.9	1071.9	1069.4	1066.9	1064.4	1064.4	1059.4	1054.5	1049.5	1042.0
17.5°	1052.0	1052.0	1052.0	1049.5	1044.5	1044.5	1042.0	1037.0	1032.0	1027.0	1017.1
20°	1027.0	1024.5	1024.5	1022.0	1017.1	1017.1	1014.6	1009.6	1004.6	997.1	989.6
22.5°	992.1	994.6	992.1	989.6	987.1	984.7	982.2	977.2	972.2	964.7	957.2
25°	957.2	954.7	954.7	954.7	952.2	947.3	944.8	942.3	934.8	927.3	919.8
27.5°	914.9	909.9	909.9	912.4	909.9	907.4	904.9	899.9	894.9	887.4	880.0
30°	872.5	870.0	870.0	867.5	862.5	860.0	860.0	855.0	852.5	845.1	837.6
32.5°	812.6	815.1	817.6	820.1	817.6	817.6	817.6	810.2	802.7	797.7	790.2
35°	735.4	737.9	742.9	747.8	757.8	760.3	762.8	765.3	757.8	750.3	740.4
37.5°	655.6	660.6	663.1	670.6	678.0	685.5	688.0	698.0	705.5	703.0	690.5
40°	578.3	580.8	588.3	590.8	603.3	610.7	615.7	625.7	640.6	645.6	645.6
42.5°	508.5	511.0	513.5	521.0	531.0	540.9	543.4	553.4	570.8	578.3	583.3
45°	446.2	448.7	453.7	456.2	466.2	471.1	476.1	491.1	501.1	513.5	516.0
47.5°	391.4	391.4	393.9	401.3	408.8	413.8	416.3	428.8	438.7	446.2	448.7
50°	341.5	344.0	346.5	349.0	354.0	359.0	363.9	373.9	381.4	386.4	383.9
52.5°	301.6	304.1	304.1	306.6	311.6	316.6	319.1	324.1	329.0	331.5	334.0
55°	266.7	266.7	269.2	271.7	274.2	276.7	276.7	281.7	281.7	284.2	281.7
57.5°	236.8	236.8	236.8	239.3	239.3	241.8	241.8	241.8	241.8	241.8	239.3
60°	209.4	206.9	209.4	209.4	211.9	211.9	211.9	209.4	206.9	206.9	204.4
62.5°	182.0	182.0	182.0	184.5	184.5	182.0	182.0	182.0	177.0	177.0	174.5
65°	159.5	157.0	159.5	159.5	159.5	157.0	157.0	154.6	152.1	149.6	147.1
67.5°	137.1	137.1	137.1	137.1	134.6	134.6	134.6	129.6	127.1	124.6	122.1
70°	114.7	117.2	114.7	114.7	114.7	112.2	112.2	109.7	107.2	104.7	102.2
72.5°	97.2	97.2	97.2	94.7	94.7	92.2	92.2	89.7	87.2	84.8	82.3
75°	79.8	79.8	79.8	77.3	74.8	74.8	74.8	72.3	69.8	67.3	64.8
77.5°	62.3	62.3	59.8	59.8	57.3	57.3	57.3	54.8	52.3	49.9	49.9
80°	44.9	44.9	44.9	44.9	42.4	42.4	42.4	39.9	37.4	37.4	34.9
82.5°	29.9	32.4	29.9	29.9	27.4	27.4	27.4	27.4	24.9	24.9	24.9
85°	17.4	17.4	17.4	17.4	15.0	17.4	15.0	15.0	15.0	15.0	12.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1081.9	1079.4	1079.4	1076.9	1076.9	1074.4	1074.4	1071.9	1071.9	1069.4	1066.9
5°	1081.9	1079.4	1076.9	1076.9	1074.4	1071.9	1069.4	1066.9	1061.9	1059.4	1056.9
7.5°	1079.4	1076.9	1071.9	1066.9	1064.4	1061.9	1059.4	1054.5	1049.5	1044.5	1039.5
10°	1071.9	1066.9	1059.4	1054.5	1052.0	1047.0	1042.0	1037.0	1029.5	1022.0	1017.1
12.5°	1056.9	1049.5	1042.0	1034.5	1032.0	1027.0	1019.6	1012.1	1004.6	997.1	989.6
15°	1034.5	1027.0	1019.6	1012.1	1007.1	1004.6	994.6	984.7	977.2	967.2	957.2
17.5°	1009.6	1002.1	992.1	982.2	977.2	972.2	964.7	952.2	944.8	932.3	924.8
20°	982.2	972.2	959.7	949.8	944.8	939.8	927.3	917.3	904.9	892.4	884.9
22.5°	947.3	934.8	924.8	914.9	907.4	902.4	889.9	877.5	865.0	852.5	840.1
25°	907.4	897.4	884.9	875.0	867.5	860.0	847.5	835.1	820.1	807.7	795.2
27.5°	870.0	857.5	845.1	830.1	825.1	815.1	802.7	790.2	775.3	762.8	747.8
30°	825.1	812.6	797.7	785.2	780.2	772.8	757.8	742.9	730.4	715.4	703.0
32.5°	780.2	767.8	755.3	740.4	732.9	722.9	708.0	693.0	678.0	665.6	650.6
35°	732.9	720.4	705.5	690.5	680.5	670.6	653.1	635.7	620.7	605.7	598.3
37.5°	683.0	668.1	653.1	630.7	620.7	610.7	593.3	578.3	563.4	548.4	540.9
40°	628.2	610.7	593.3	573.3	563.4	550.9	535.9	521.0	506.0	493.6	483.6
42.5°	573.3	550.9	533.5	511.0	503.5	493.6	478.6	461.2	448.7	438.7	428.8
45°	511.0	496.1	476.1	456.2	446.2	438.7	423.8	408.8	396.4	386.4	378.9
47.5°	446.2	438.7	418.8	398.8	393.9	383.9	368.9	356.5	346.5	339.0	331.5
50°	386.4	381.4	368.9	349.0	341.5	334.0	321.6	311.6	301.6	294.1	289.2
52.5°	331.5	326.6	319.1	304.1	296.6	289.2	279.2	269.2	261.7	254.3	251.8
55°	281.7	276.7	269.2	259.3	254.3	246.8	239.3	231.8	224.4	221.9	216.9
57.5°	239.3	231.8	226.8	219.4	216.9	211.9	204.4	199.4	194.4	189.5	184.5
60°	201.9	196.9	191.9	187.0	184.5	182.0	174.5	169.5	164.5	162.0	157.0
62.5°	172.0	167.0	162.0	157.0	154.6	152.1	147.1	142.1	137.1	137.1	132.1
65°	144.6	139.6	137.1	132.1	129.6	127.1	122.1	119.7	114.7	112.2	109.7
67.5°	119.7	117.2	114.7	107.2	107.2	104.7	99.7	97.2	94.7	92.2	89.7
70°	97.2	94.7	92.2	89.7	87.2	84.8	82.3	79.8	74.8	74.8	72.3
72.5°	79.8	77.3	72.3	69.8	69.8	67.3	64.8	62.3	59.8	57.3	57.3
75°	62.3	59.8	57.3	54.8	52.3	52.3	49.9	47.4	47.4	44.9	42.4
77.5°	47.4	44.9	42.4	39.9	39.9	37.4	37.4	34.9	34.9	32.4	32.4
80°	32.4	32.4	29.9	29.9	27.4	27.4	24.9	24.9	24.9	22.4	22.4
82.5°	22.4	19.9	19.9	19.9	17.4	17.4	17.4	17.4	15.0	15.0	15.0
85°	12.5	12.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	7.5	7.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1066.9	1064.4	1061.9	1061.9	1061.9	1059.4	1059.4	1056.9	1054.5	1054.5	1052.0
5°	1052.0	1049.5	1047.0	1044.5	1044.5	1039.5	1039.5	1037.0	1034.5	1032.0	1029.5
7.5°	1034.5	1029.5	1027.0	1022.0	1022.0	1019.6	1012.1	1009.6	1007.1	1002.1	999.6
10°	1012.1	1004.6	999.6	997.1	992.1	989.6	982.2	979.7	974.7	972.2	967.2
12.5°	982.2	974.7	967.2	964.7	962.2	954.7	949.8	942.3	937.3	932.3	927.3
15°	949.8	942.3	932.3	929.8	927.3	917.3	909.9	904.9	897.4	892.4	887.4
17.5°	912.4	902.4	892.4	889.9	884.9	875.0	870.0	862.5	852.5	847.5	842.6
20°	872.5	862.5	852.5	850.0	845.1	835.1	825.1	817.6	810.2	805.2	797.7
22.5°	827.6	817.6	805.2	800.2	797.7	785.2	777.8	770.3	762.8	752.8	747.8
25°	785.2	772.8	762.8	755.3	750.3	740.4	732.9	720.4	715.4	705.5	700.5
27.5°	737.9	725.4	715.4	708.0	703.0	695.5	683.0	673.1	665.6	658.1	653.1
30°	690.5	678.0	668.1	660.6	655.6	645.6	633.2	628.2	618.2	610.7	603.3
32.5°	640.6	628.2	615.7	613.2	605.7	595.8	588.3	578.3	570.8	563.4	555.9
35°	583.3	575.8	565.9	563.4	558.4	548.4	540.9	533.5	526.0	516.0	508.5
37.5°	528.5	518.5	513.5	508.5	506.0	501.1	493.6	486.1	478.6	471.1	468.6
40°	473.6	466.2	458.7	458.7	456.2	451.2	446.2	441.2	436.2	428.8	423.8
42.5°	421.3	413.8	411.3	406.3	403.8	401.3	396.4	393.9	391.4	386.4	381.4
45°	371.4	366.4	361.5	359.0	356.5	354.0	354.0	349.0	346.5	344.0	339.0
47.5°	324.1	321.6	319.1	316.6	314.1	314.1	309.1	306.6	304.1	304.1	299.1
50°	284.2	281.7	279.2	276.7	274.2	274.2	271.7	269.2	266.7	264.2	259.3
52.5°	249.3	246.8	241.8	241.8	241.8	239.3	236.8	234.3	231.8	229.3	226.8
55°	214.4	211.9	209.4	209.4	206.9	206.9	204.4	201.9	199.4	196.9	194.4
57.5°	184.5	182.0	179.5	179.5	177.0	177.0	174.5	172.0	167.0	164.5	162.0
60°	157.0	154.6	152.1	152.1	149.6	147.1	147.1	142.1	139.6	137.1	132.1
62.5°	129.6	127.1	127.1	124.6	124.6	124.6	122.1	117.2	114.7	109.7	107.2
65°	107.2	104.7	104.7	102.2	102.2	99.7	97.2	94.7	89.7	87.2	82.3
67.5°	87.2	87.2	84.8	82.3	82.3	79.8	77.3	72.3	69.8	64.8	62.3
70°	69.8	67.3	67.3	64.8	62.3	59.8	57.3	54.8	52.3	52.3	52.3
72.5°	54.8	52.3	52.3	49.9	49.9	44.9	42.4	42.4	42.4	42.4	42.4
75°	42.4	39.9	37.4	37.4	34.9	34.9	32.4	32.4	32.4	32.4	34.9
77.5°	29.9	29.9	27.4	27.4	24.9	24.9	24.9	24.9	24.9	24.9	27.4
80°	22.4	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
82.5°	15.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	15.0
85°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.0	7.5	7.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P238356

CATALOG NUMBER: PRS630D010-S6M24-61SWWMW-3000K

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1052.0	1052.0	1052.0	1052.0	1052.0	1049.5	1052.0	1052.0
5°	1029.5	1027.0	1027.0	1024.5	1024.5	1024.5	1024.5	1022.0
7.5°	997.1	994.6	994.6	994.6	992.1	992.1	989.6	992.1
10°	962.2	959.7	957.2	959.7	954.7	954.7	954.7	954.7
12.5°	924.8	922.3	919.8	917.3	917.3	914.9	914.9	914.9
15°	882.4	880.0	877.5	875.0	875.0	870.0	870.0	867.5
17.5°	837.6	835.1	832.6	830.1	825.1	825.1	822.6	825.1
20°	790.2	785.2	782.7	782.7	780.2	777.8	775.3	775.3
22.5°	742.9	737.9	737.9	732.9	730.4	727.9	725.4	722.9
25°	693.0	688.0	688.0	683.0	680.5	678.0	678.0	675.5
27.5°	645.6	638.2	638.2	635.7	630.7	628.2	628.2	630.7
30°	598.3	593.3	590.8	585.8	583.3	580.8	578.3	580.8
32.5°	550.9	543.4	540.9	540.9	538.4	535.9	533.5	531.0
35°	503.5	501.1	496.1	493.6	488.6	488.6	486.1	486.1
37.5°	461.2	453.7	451.2	448.7	446.2	443.7	441.2	443.7
40°	416.3	411.3	406.3	406.3	401.3	398.8	396.4	398.8
42.5°	376.4	371.4	368.9	363.9	359.0	356.5	356.5	354.0
45°	336.5	329.0	329.0	321.6	319.1	316.6	314.1	314.1
47.5°	296.6	291.7	286.7	286.7	279.2	276.7	274.2	274.2
50°	259.3	251.8	249.3	246.8	241.8	236.8	234.3	234.3
52.5°	221.9	216.9	211.9	211.9	206.9	201.9	199.4	196.9
55°	189.5	184.5	182.0	177.0	174.5	167.0	164.5	164.5
57.5°	157.0	152.1	149.6	147.1	142.1	137.1	132.1	132.1
60°	129.6	124.6	124.6	119.7	114.7	109.7	104.7	104.7
62.5°	102.2	97.2	97.2	94.7	89.7	87.2	84.8	82.3
65°	79.8	74.8	74.8	74.8	74.8	74.8	72.3	74.8
67.5°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
70°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
72.5°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
75°	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
77.5°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
80°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
82.5°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
85°	7.5	10.0	10.0	10.0	10.0	10.0	7.5	7.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)